KALPASTHANA LIFE CARE PRODUCTS PVT. LTD.
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TECHNICAL DATA SHEET

1,3-Cyclohexanedione (1,3-CHD / 13 CHD)

CAS No: 504-02-9

PRODUCT DESCRIPTION

A versatile cyclic beta-diketone (commonly referred to as 1,3-CHD or 13 CHD) used as a vital building block in pharmaceutical and agrochemical industries. 1,3-Cyclohexanedione (1,3-CHD / 13 CHD, also known as Dihydroresorcinol) is a crucial precursor in the synthesis of Ondansetron (anti-emetic) and widely used in the production of triketone herbicides like Mesotrione. We ensure high purity (≥99%) for consistent manufacturing results.

SPECIFICATIONS

Product Name	1,3-Cyclohexanedione (1,3-CHD / 13 CHD)
Synonyms / Abbreviations	1,3-CHD, Cyclohexane-1,3-dione, Dihydroresorcinol, 13 CHD
CAS Number	504-02-9
Molecular Formula	C6H8O2
Molecular Weight	112.13 g/mol
Appearance	White to Off-white Crystalline Powder
Purity (GC)	≥ 99.0%
Melting Point	104°C - 108°C

APPLICATIONS & USAGE

1,3-Cyclohexanedione (Dihydroresorcinol) is a highly reactive cyclic beta-diketone exhibiting strong keto-enol tautomerism. It is the primary key starting material for 1,2,3,9-tetrahydrocarbazolone, the direct intermediate for Ondansetron. It is also an essential raw material in synthesizing HPPD-inhibitor agrochemical herbicides like Mesotrione and Sulcotrione, as well as resorcinol derivatives, dyestuffs, and pharmaceutical active agents.

- Ondansetron API KSM: Reacts with phenylhydrazine to yield the carbazolone intermediate for Ondansetron synthesis.
- HPPD Herbicides: Key starting material for the synthesis of advanced triketone agrochemicals like Mesotrione.
- Carvedilol Pathway Precursor: Reacts with phenylhydrazine to yield tetrahydrocarbazolone, which is subsequently converted to 4-hydroxycarbazole (the essential intermediate for Carvedilol synthesis).

DISCLAIMER & SAFETY

Plant Address: Plot No. 105, Part A, KIADB Industrial Area, Gadvanthi Village, Humnabad, Bidar District, Karnataka - 585330, India.
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